2010 CDC SEXUALLY TRANSMITTED DISEASES (STD) TREATMENT SUMMARY GUIDELINES STD CONTROL PROGRAM - RHODE ISLAND DEPARTMENT OF HEALTH

These guidelines for treatment of STDs reflect recommendations of the 2010 CDC STD Treatment Guidelines http://www.cdc.gov/std/treatment/2010/toc.htm. The focus is on STDs encountered in outpatient settings and is not an exhaustive list of effective treatments. Please refer to the complete document for more information or call the STD Program. Sexual partner services (identification, notification, risk counseling and referral) for gonorrhea, syphilis and HIV/AIDS will be provided by public health personnel when a case is reported. Contact information for Partner Services and to Report cases: (401) 222-2577. FAX (401) 222-1105 STD Program Rhode Island Department of Health, Room 106, 3 Capitol Hill, Providence, RI 02908

DISEASE			RECOMMENDED TREATMENT	ALTERNATIVES		
DIOLAGE			RESONALISES INCATMENT	(use only if recommended regimens are contraindicated)		
SYPHILIS						
ADULTS PRIMARY, SECONDARY OR EARLY LATENT (<1 YEAR)			Benzathine penicillin G 2.4 million units IM single dose	(For penicillin-allergic non-pregnant patients only) Doxycycline 100 mg orally 2 times a day for 14 days OR Tetracycline 500 mg orally 4 times a day for 14 days		
ADULTS LATE LATENT (>1 YEAR) OR LATENT OF UNKNOWN DURATION		WN	Benzathine penicillin G 2.4 million units IM for 3 doses at 1 week intervals (total 7.2 million units)	 (For penicillin-allergic non-pregnant patients only) Doxycycline 100 mg orally 2 times a day for 28 days <u>OR</u> Tetracycline 500 mg orally 4 times a day for 28 days 		
For all Suspect Syphilis Cases: Call the STD Registry at (401) 222-2577 for past titers and treatment	NEUROSYPHILIS		 Aqueous crystalline penicillin G 18 - 24 million units per day, administered as 3-4 million units IV every 4 hours or continuous infusion, for 10-14 days 	Procaine penicillin 2.4 million units IM once daily <u>PLUS</u> probenecid 500 mg orally 4 times a day, both for 10-14 days		
PRIMARY, SECONDARY OR EAR	CHILDREN ARY OR EARLY LATENT (<1 YEAR)		 Benzathine penicillin G 50,000 units/kg IM single dose, up to adult dose of 2.4 million units 			
CHILDREN LATE LATENT (>1 YEAR) OR LATENT OF UNKNOWN DURATION		WN	Benzathine penicillin G 50,000 units/kg IM (up to adult dose of 2.4 million units) for 3 doses at 1 week intervals (up to total adult dose of 7.2 million units)			
CONGENITAL SYPHILIS		LIS	See complete CDC guidelines.			
HIV INFECTION			Same stage-specific recommendations as for HIV-negative	•		
PREGNANCY			Penicillin is the only recommended treatment for syphilis during pregnancy. Women who are allergic should be desensitized and treated with penicillin. Treatment is the same as in non-pregnant patients for each stage of syphilis. 1			
GONOCOCCAL INFECTION						
ADULTS, ADOLESCENTS AND CHILDREN ≥45 KG UROGENITAL, PHARYNGEAL, RECTAL Partner Management: Empiric treatment of all sexual contacts during the 60 days preceding onset of symptoms or, if asymptomatic, date of diagnosis.			 Ceftriaxone 250 mg IM once OR, if not an option Cefixime 400mg orally once OR Other single-dose injectable cephalosporin PLUS² Azithromycin 1 g orally once OR Doxycycline³ 100 mg orally 2 times a day for 7 days 	Note: Ceftriaxone 250 mg IM is the preferred treatment regimen for uncomplicated gonorrhea, and remains the only recommended regimen because of its improved efficacy for pharyngeal infections (which are often unrecognized).		
ADULTS AND ADOLESCENTS CONJUNCTIVAL			Ceftriaxone 1 g IM once plus lavage the infected eye with saline solution once	See complete CDC guidelines for alternatives.		
CHILDREN <45 KG		KG	Ceftriaxone 125 mg IM once			
NEONATES OPHTHALMIA NEONATORUM PROPHYLAXIS FOR INFANTS BORN TO INFECTED MOTHERS		OR	Ceftriaxone 25-50 mg/kg IV or IM once (maximum 125 mg)			
CHLAMYDIAL INFECTIONS						
ADULTS AND CHILDREN AGED ≥8 YEARS Partner Management: Empiric treatment of all sexual		ARS	Azithromycin 1 g orally single dose <u>OR</u> Doxycycline ³ 100 mg orally 2 times a day for 7 days	Erythromycin base 500 mg orally 4 times a day for 7 days ⁴ OR Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7		
contacts during the 0 days preceding onset of starymptomatic, date of diagnosis.	symptoms or, if			days ^a <u>OR</u> • Levofloxacin ⁵ 500 mg orally once a day for 7 days <u>OR</u> • Ofloxacin ⁵ 300 mg orally 2 times a day for 7 days		
CHILDREN <45 KG AND NEONATES			 Erythromycin base or ethylsuccinate 50 mg/kg/day orally divided into four doses daily for 14 days⁶ 	See complete CDC guidelines for alternatives.		
PREGNANCY		CY	 Azithromycin 1 g orally once <u>OR</u> Amoxicillin 500 mg orally 3 times a day for 7 days 	 Erythromycin base 500 mg orally 4 times a day for 7 days (or 250 mg orally 4 times a day for 14 days) <u>OR</u> Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days (or 400 mg orally 4 times a day for 14 days) 		
NONGONOCOCCAL URETH	IRITIS			,		
ADULT MALES		ES.	 Azithromycin 1 g orally once⁷ <u>OR</u> Doxycycline 100 mg orally 2 times a day x 7 days 	 Erythromycin base 500 mg orally 4 times a day for 7 days⁴ <u>OR</u> Erythromycin ethylsuccinate 800 mg orally 4 times a day for 7 days⁴ <u>OR</u> Levofloxacin⁵ 500 mg orally once a day for 7 days OR Ofloxacin⁵ 300 mg orally 2 times a day for 7 days 		
EPIDIDYMITIS8						
ADULT MALES		Ceftriaxone 250 mg IM once PLUS	Levofloxacin ⁵ 500 mg orally once a day for 10 days <i>OR</i>			
PELVIC INFLAMMATORY DISEASE (outpatient			Doxycycline 100 mg orally 2 times a day for 10 days	Ofloxacin ⁵ 300 mg orally twice daily for 10 days		
LEVIO INI LAMMATORI D	ADULT FEMAL		Ceftriaxone 250 mg IM once <u>OR</u>			
7.552 ZIMAELO			Ceforation 2 of Ing Inforce <u>OK</u> Cefoxitin 2 g IM once plus probenecid 1 g orally once <u>OR</u> Other third generation cephalosporin <u>PLUS</u> Doxycycline 100 mg orally 2 times a day for 14 days <u>WITH OR WITHOUT</u> Metronidazole 500mg orally twice a day for 14 days	See complete CDC guidelines for alternatives.		
PREGNANCY				propriate recommended parenteral IV therapy (see complete		

Tetracycline/doxycycline are contraindicated; erythromycin is not recommended because it does not reliably cure an infected fetus; data insufficient to recommend azithromycin or ceftriaxone.

² Dual therapy for gonococcal infection is now recommended for all patients with gonorrhea regardless of chlamydia test results.

Doxycycline is not recommended during pregnancy, lactation, or for children <8 years of age.

If patient cannot tolerate high dose erythromycin schedules, change to lower dose for longer (see under pregnancy alternatives). ⁵ Quinolones are not recommended for use in patients <18 years of age, and are contraindicated in pregnant women.

⁶ Efficacy of treating neonatal chlamydial conjunctivitis and pneumonia is about 80%. A second course of therapy may be required. An association between oral erythromycin and infantile hypertrophic pyloric stenosis (IHPS) has been reported in infants aged less than 6 weeks treated with this drug. See complete CDC guidelines for more information.

Infections with M. genitalium may respond better to azithromycin. Recommended regimen of ceftriaxone and doxycycline is for epididymitis most likely caused by gonococcal and/or chlamydial infection. Given increase in quinolone resistant gonorrhea, alternative regimen of ofloxacin or levofloxacin is recommended only if epididymitis is not caused by gonorrhea or if infection is most likely caused by enteric gram-negative organisms.

[◆] Indicates revision from 2006 CDC STD Treatment Guidelines

DISEASE	RECOMMENDED TREATMENT		ALTERNATIVES				
DISEASE	RECOMMENDED TREATMENT		(use only if recommended regimens are contraindicated)				
CHANCROID				,			
ADULTS	Azithromycin ⁹ 1 g orally once <u>OR</u>						
	• Ceftriaxone ⁹ 250 mg IM once <u>OR</u>	y for 3 days OP					
	Ciprofloxacin ⁵ 500 mg orally 2 times a day for 3 days <u>OR</u> Erythromycin base 500 mg orally 3 times a day for 7 days						
BACTERIAL VAGINOSIS (BV)	- Liyanomyon bacc coo mg crany c amoc	a day for 7 days					
ADULT FEMALES	Metronidazole ¹⁰ 500 mg orally 2 times a day for 7 days OR		Tinidazole 1 2 g orally once daily for 3 days OR				
	Metronidazole gel 0.75%, 5 g intravag. once a day for 5		Tinidazole ¹¹ 1 g orally once daily for 5 days <u>OR</u>				
	days <u>OR</u>Clindamycin cream 2%, 5 g intravag. at bedtime for 7 days		Clindamycin 300 mg orally 2 times a day for 7 days OR Clindamycin ovules 100 mg intravag, at bedtime for 3 days				
PREGNANCY ¹²	Metronidazole ¹⁰ 500 mg orally 2 times a day for 7 days <u>OR</u>		Cilildamycin ovules 100 mg intravag. at bedtime for 3 days				
	250 mg orally 3 times a day for 7 days <u>OR</u>						
	Clindamycin 300 mg orally 2 times a day for 7 days						
TRICHOMONIASIS	10		10.12				
ADULTS	Metronidazole ¹⁰ 2 g orally once <u>OR</u> Tinidazole ¹¹ 2 g orally once		Metronidazole ^{10,13} 500 mg orally 2 times a day for 7 days				
PEDICULOSIS PUBIS ¹⁴	Inidazole 2 g orally once						
PEDIOUEOSIS PUBIS	Permethrin 1% cream rinse annlied to aff	ected area and	Malathion 0.5% lotion applied for 8-12 hours and washed				
	Permethrin 1% cream rinse applied to affected area and washed off after 10 minutes <i>OR</i>		off OR				
	Pyrethrins with piperonyl butoxide applied to affected area		Ivermectin ¹⁵ 250 mcg/kg orally once, repeated in 2 weeks				
004DUE0	and washed off after 10 minutes						
SCABIES	Demostheir 50/ and a second second	-file had for	1:116 40/ 4	flation and OD mark and on the Links			
	Permethrin 5% cream applied to all areas of the body from the neck down and washed off after 8-14 hours <i>OR</i>		Lindane ¹⁶ 1% 1 oz of lotion or 30 g of cream applied thinly to all areas of the body from neck down and washed off				
	Ivermectin ¹⁵ 200 mcg/kg orally, repeated in 2 weeks		after 8 hours				
GENITAL HERPES SIMPLEX: See complete CDC guidelines for the management of herpes in pregnancy, in newborns, and in persons with HIV.							
ADULTS	Acyclovir 400 mg orally 3 times a day for 7-10 days OR						
FIRST CLINICAL EPISODE	200 mg orally 5 times a day for 7-10 days <u>OR</u>						
	Famciclovir ¹⁷ 250 mg orally 3 times a day for 7-10 days <u>OR</u> Valacyclovir 1 g orally 2 times a day for 7-10 days						
ADULTS	Acyclovir 800 mg orally 2 times a day for 5 days <i>OR</i>						
EPISODIC THERAPY FOR RECURRENCE	400 mg orally 3 times a day for 5 days OR						
	800 mg orally 3 times a day for 2 days OR • Famciclovir ¹⁷ 125 mg orally 2 times a day for 5 days OR						
	1000 mg orally 2 times a day for 5 days <u>OR</u>						
	◆ 500 mg orally once, followed by 250 mg orally						
	2 times a day for 2 days OR						
	Valacyclovir 500 mg orally 2 times a day for 3 days <u>OR</u> A grally once a day for 5 days.						
ADULTS	1 g orally once a day for 5 days • Acyclovir 400 mg orally 2 times a day <i>OR</i>						
SUPPRESSIVE THERAPY FOR RECURRENCE	 Famciclovir¹⁷ 250 mg orally 2 times a day <u>OR</u> 						
	 Valacyclovir 500 mg orally once a day <u>OR</u> 						
HIV INFECTION	1 g orally once a day Higher doses and/or longer therapy recommended. See complet		te CDC quidelines				
GENITAL WARTS	Triginal doses and/or longer triciapy reconni	ichaea. Oee comple	cobo guidelliles.				
External or Per	ianal	Urethral	Vaginal	Anal			
PROVIDER-ADMINISTERED		Meatus	Cryotherapy with	Cryotherapy with liquid nitrogen			
Cryotherapy with liquid nitrogen or cryoprobe. Repeat	applications every 1-2 weeks if necessary	Cryotherapy	liquid nitrogen.	OR			
OR	, ,	with liquid	Cryoprobe not	TCA or BCA 80%-90%. Apply			
Podophyllin resin ¹⁸ 10%-25% in a compound tincture		nitrogen <u>OR</u>	recommended (risk	small amount only to warts. Allow to			
and to < 0.5 ml. No open wounds or lesions should exis Wash off 1-4 hours after application. Repeat weekly if n	Podophyllin 10%-25% ¹⁸ in a	of perforation and fistula formation) OR	dry. If excess amount applied, powder with talc, baking soda or				
Trichloroacetic acid (TCA) or bichloroacetic acid (B	compound	TCA or BCA 80%-	liquid soap. Repeat weekly if				
warts. Allow to dry. If excess amount applied, powder w	tincture of	90%. Apply small	necessary <u>OR</u>				
weekly if necessary <u>OR</u> Surgical removal	benzoin. Treatment area	amount only to warts. Allow to dry. If	Surgical removal				
_	must be dry	excess amount	_				
PATIENT-APPLIED Podofilox 0.5% solution or gel. 18 Apply 2 times a day	before contact	applied, powder with	Many persons with anal warts may also have them in the rectal				
therapy, 4 cycles max. Total wart area should not excee		with normal	talc, baking soda or	mucosa. Inspect rectal mucosa by			
to exceed 0.5 ml. <u>OR</u>	The second secon	mucosa. Repeat weekly	liquid soap. Repeat weekly if necessary.	digital examination or anoscopy.			
Imiquimod 5% cream. Apply once daily at bedtime 3 ti		if necessary.		Warts on the rectal mucosa should			
treatment area with soap and water 6-10 hours after ap	plication. <u>OR</u>	-		be managed in consultation with a specialist.			
▼ Sinecatechins 15% ointment. Applied 3 times a	◆ Sinecatechins 15% ointment. 18,19 Applied 3 times a day for up to 16 weeks. Do not wash off. Specialist. Specialist.						

As of July 2010 clinical providers authorized to dispense prescription drugs in RI may prescribe and/or dispense medication for the sexual partners of their STD patients without an examination and in doing so shall not be subject to civil or criminal liability or be deemed to have engaged in unprofessional conduct. Note that patient delivered therapy for sex partners is especially useful to treat male partners of chlamydia cases, in situations where attempts to bring the partner in for care have failed. Selected cases of difficult to find gonorrhea partners may also be treated with an oral regimen. It is not recommended that syphilis cases or MSM be treated without an examination.

9 Because data are limited concerning efficacy of ceftriaxone and azithromycin regimens in HIV-infected persons, these regimens should be used for such patients only if follow-up can be ensured.

◆ Indicates revision from 2006 CDC STD Treatment Guidelines

Because data are limited concerning emicacy of certifiaxure and azumoniyon in inviging the stress regiments should be avoided during treatment and for 24 hours thereafter. Multiple studies and meta-analyses have *not* demonstrated an association between metronidazole use during pregnancy and teratogenic or mutagenic effects in newborns. In lactating women administered metronidazole, withholding breastfeeding during treatment and for 12–24 hours after last dose will reduce exposure of infant to

metronidazole. 11 Consuming alcohol should be avoided during treatment and for 72 hours thereafter. Tinidazole safety during pregnancy not established. Interruption of breastfeeding is recommended during treatment and for 3 Consuming alcohol should be avoided during treatment and for 72 hours thereafter. Initiazone safety during pregnancy not established, interruption of pregnant days after last dose.

12 Oral therapy preferred for treatment of pregnant women with BV because of possibility of subclinical upper genital tract infection.

13 The 7 day metronidazole regimen may be more effective than single dose metronidazole in women coinfected with trichomoniasis and HIV.

14 Lindane no longer recommended because of toxicity. Pregnant or lactating women should be treated either with permethrin or pyrethrins with piperonyl butoxide.

¹⁵ Ivermectin not recommended for pregnant or lactating women, or children who weigh <15 kg.

¹⁶ Lindane no longer recommended as first line therapy because of toxicity. Lindane not to be used immediately after a bath, in persons with extensive dermatitis and women who are pregnant or lactating, or children

aged < 2 years.

¹⁷ Famciclovir efficacy and safety not established in patients <18 years of age.

Framciciovit emicacy and salety not established in patients < 10 years of ago.

19 Imiquimod, sinecatechins, podophyllin, and podofilox should not be used during pregnancy.

19 Sinecatechins not recommended for HIV-infected persons, immunocompromised persons, or persons with clinical genital herpes.